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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/072,797

02/07/2002

Jeffrey Rodman

PA1094US

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07/17/2006

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EXAMINER

SCHUBERT, KEVIN R

ART UNIT

PAPER NUMBER

2137

DATE MAILED: 07/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/072,797

Applicant(s)

RODMAN ET AL.

Examiner

Kevin Schubert

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 June 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>06282006</u> . | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

Claims 1-20 have been considered. After careful consideration, Examiner maintains the rejections presented in the previous action.

5

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

10

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

15

Claims 1,4-6,8-10, and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clough, U.S. Patent Application Publication No. 2003/0054766, in view of Schneier, (Schneier, Bruce. Applied Cryptography. John Wiley & Sons. 1996. Washington D.C. pages 31-36 and 176-183).

20

As per claims 1,10, and 20, the applicant describes a method for secure data transfer comprising the following limitations which are met by Clough in view of Schneier:

a) generating an encryption key within a first device of the communication system (Schneier: page 33);

b) encoding the encryption key to form an encoded signal (Schneier: page 33);

25

c) transmitting the encoded signal to a second device of the communication system remote from the first device (Schneier: page 33);

d) decoding the encoded signal at the second device to extract the encryption key (Schneier: page 33);

30

e) using the encryption key to encrypt and decrypt data for subsequent wireless transmissions between the first and second devices (Schneier: page 33);

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f) wherein the first device and the second device are co-located (Clough: [0012]);

Clough discloses a method for secure data transfer. In this method, a first device and a second device, which are co-located, communicate via wireless transmission. Further, in order to create a secure channel may utilize a secure communication technique. Clough, however, is silent as to a key-  
5 encrypting-key secure communication technique as described in the claimed invention.

Schneier discloses the well-known secure communication technique of session key exchange. It would have been obvious to one of ordinary skill in the art at the time the invention was filed to combine the ideas of Schneier with those of Clough and utilize a session key exchange because doing so provides an effective means to create a secure communication channel.

10

As per claim 4, the applicant describes the method of claim 1, which is met by Clough in view of Schneier, with the following limitation which is also met by Clough:

Wherein the encoded signal is an infrared signal (Clough: [0013]).

15

As per claims 5, 16, and 17, the applicant discloses the limitations of claims 1 and 10, which are met by Clough in view of Schneier, with the following limitation which is also met by Schneier:

Further comprising an encryption/decryption module in the first and second devices for encrypting data for transmission and decrypting data received from the other device (Schneier: page 33).

20

As per claims 6 and 9, the applicant describes the method of claim 1, which is met by Clough in view of Schneier, with the following limitation which is also met by Schneier:

Wherein the step of decoding further comprises the step of performing error detection to determine if an error has occurred in connection with the reception of decoding of the encryption key (Schneier: page 178).

25

As per claims 8, 18, and 19, the applicant describes the method of claims 1, 10, and 18, which are met by Clough in view of Schneier, with the following limitation which is also met by Clough:

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Wherein the step of using the encryption key to encrypt and decrypt subsequent wireless transmissions further comprises the step of encoding the data into radio frequency signals (Clough: [0013]).

5            Claims 2-3 and 11-15 rejected under 35 U.S.C. 103(a) as being unpatentable over Clough in view of Schneier in further view of Stein, U.S. Patent No. 6,297,892.

As per claims 2 and 3, the applicant describes the method of claim 1, which is met by Clough in view of Schneier, with the following limitation which is met by Stein:

10            Wherein the acoustic signal is DTMF tones (Stein: Col 3, lines 45-53);

Clough in view of Schneier discloses all the limitations of claim 1. However, Clough in view of Schneier is silent as to data being transmitted via DTMF tones. Stein discloses a method of securely transmitting data in which encrypted data is transmitted between two entities as DTMF tones.

15            It would have been obvious to one of ordinary skill in the art at the time the invention was filed to incorporate the ideas of Stein with those of Clough in view of Schneier because sending encrypted data as DTMF tones is an efficient way to pass data in transmission/reception systems which operate on DTMF frequencies.

20            As per claims 11-15, the applicant describes the system of claim 10, which is met by Clough in view of Schneier, with the following limitation which is met by Stein:

Wherein the first device further comprises an encoder device for encoding the encryption key into an encoded signal for transmission (Stein: 18 of Fig 1);

Stein discloses the use of a DTMF codec (18 of Fig 1) which encodes a signal for transmission.

25            Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Clough in view of Schneier in further view of Doberstein, 5,809,148.

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As per claim 7, the applicant describes the method of claim 6, which is met by Clough in view of Schneier, with the following limitation which is met by Doberstein:

Further comprising the step of sending a request for retransmission of the encoded signal if an error is detected (Doberstein: Col 3, lines 3-19);

5 Clough in view of Schneier discloses all the limitations of claim 6. However, Clough in view of Schneier does not disclose sending a request for retransmission of a signal if an error is detected. Doberstein discloses a system in which a request for retransmission of a signal comprising encrypted data is sent to the sender of the data if an error is detected. It would have been obvious to one of ordinary skill in the art at the time the invention was filed to combine the ideas of Doberstein with those of  
10 Clough in view of Schneier because doing so allows the system to make a request for retransmission of data so that the encryption key can still be built even if data is initially not received properly.

### ***Response to Arguments***

Applicant's arguments, filed 6/28/06, with respect to the 103(a) rejection of claims 1-20 have been  
15 fully considered but they are not persuasive. Applicant argues that the Clough reference, with an effective filing date of September 19, 2001, is not appropriate because the instant application is a CIP claiming benefit of 10/023,572, that has provisional application No. 60/255,813, filed December 15, 2000. Since December 15, 2000 is before September 19, 2001, Applicant believes the reference is invalid and should not be used.

20 Examiner respectfully, but most strenuously, disagrees for at least the two reasons that 1) Applicant has not appropriately claimed the benefit of application No. 60/255,813 and 2) even if Applicant did appropriately claim the benefit of application No. 60/255,813, the subject matter of claims 1-20 is not supported by 60/255,813 so therefore claims 1-20 are not entitled to the December 15, 2000 date.

Regarding 1), Applicant has claimed the benefit of application No. 10/023,572. However, it does  
25 not appear that Applicant has claimed the benefit of application No. 60/255,813. Examiner notes that 60/255,813 is a provisional application. Further, in response to the question "I hereby claim the benefit under Title 35, United States Code 119(e) of any United States provisional application(s) listed below",

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Applicant listed "NONE" (see Oath filed 6/3/02 page 2). Applicant is reminded to review 37 CFR 1.78 and other relevant portions of the MPEP.

Regarding 2, application No. 60/255,813 entitled "System and Method for Device Co-Location Discrimination" does not teach appear to teach the limitations of the claimed invention. At best, the application appears to teach determining whether devices are co-located in a room. But where does the application teach "generating an encryption key within a first device of the communication system" (claim 1, lines 3-4), "encoding the encryption key to form an encoded signal" (claim 1, line 5), "transmitting the encoded signal to a second device of the communication system remote from the first device" (claim 1, lines 6-7), "decoding the encoded signal at the second device to extract the encryption key" (claim 1, lines 8-9), and "using the encryption key to encrypt and decrypt data for subsequent wireless transmissions between the first and second devices" (claim 1, lines 10-11). Examiner notes that other deficiencies may exist between the provisional application and the claimed invention. Accordingly, the claims, as presented, are not entitled to the benefit of December 15, 2000.

For at least 1) and 2) above, Examiner maintains the rejection.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Schubert whose telephone number is (571) 272-4239. The examiner can normally be reached on M-F 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

15  
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